## SEQUENCE LISTING

<110> Aventis Research & Technologies GmbH & Co KG														
<120> Novel Antifungal Agents and Fungicides, Method for the Production Thereof and Their Use														
<130> 199at07														
<140> PCT/EP00/04972 <141> 2000-05-31														
<150> DE19930959.0 <151> 1999-07-05														
<160> 4														
<170> PatentIn Ver. 2.1														
<210> 1 <211> 930 <212> DNA <213> Williopsis californica														
<220> <221> CDS <222> (1)(930)														
<pre>&lt;400&gt; 1 atg cgt ttc act aca ctc gtt gcc ctc gca ggt gcc att tcc tca gtc</pre>														
cag gcc atc ggc caa cta gct ttt aac ttg ggt gtc aag gat aac tca 96 Gln Ala Ile Gly Gln Leu Ala Phe Asn Leu Gly Val Lys Asp Asn Ser 20 25 30														
ggt cag tgc aag act gcc tca gag tac aag gat gac ttg tct acc ctt 144 Gly Gln Cys Lys Thr Ala Ser Glu Tyr Lys Asp Asp Leu Ser Thr Leu 35 40 45														
tca ggc tac aca tct aag gtt aga gtc tac gct gcc tca gac tgt aac 192 Ser Gly Tyr Thr Ser Lys Val Arg Val Tyr Ala Ala Ser Asp Cys Asn 50 55 60														
act ttg cag act ttg ggt cca gtt gtc gaa gag gct ggc ttc tca ttt 240 Thr Leu Gln Thr Leu Gly Pro Val Val Glu Glu Ala Gly Phe Ser Phe 65 70 75 80														
ttc gtt ggt att tgg cca aac gat gat gct cac ttc cag gaa gag caa 288 Phe Val Gly Ile Trp Pro Asn Asp Asp Ala His Phe Gln Glu Glu Gln 85 90 95														
gac gct ttg aaa act tat ttg cca aag att aag aga tcc aca gtg gag 336 Asp Ala Leu Lys Thr Tyr Leu Pro Lys Ile Lys Arg Ser Thr Val Glu 100 105 110														





				ggt Gly									384
				gac Asp									432
	-	-		gaa Glu					-				480
•	-			aac Asn 165	_	_	-	-					528
				gtt Val									576
				aac Asn									624
				att Ile									672
				acc Thr									720
	_			gtt Val 245	-			-					768
_	-		_	ggt Gly		-							816
				aag Lys									864
				tgg Trp									912
			acc Thr	tct Ser	tag 310								930

<210> 2 <211> 309

.)

<212> PRT

<213> Williopsis californica

<400> 2 Met Arg Phe Thr Thr Leu Val Ala Leu Ala Gly Ala Ile Ser Ser Val 5 10 Gln Ala Ile Gly Gln Leu Ala Phe Asn Leu Gly Val Lys Asp Asn Ser 25 20 Gly Gln Cys Lys Thr Ala Ser Glu Tyr Lys Asp Asp Leu Ser Thr Leu 40 Ser Gly Tyr Thr Ser Lys Val Arg Val Tyr Ala Ala Ser Asp Cys Asn 55 Thr Leu Gln Thr Leu Gly Pro Val Val Glu Glu Ala Gly Phe Ser Phe 70 75 Phe Val Gly Ile Trp Pro Asn Asp Asp Ala His Phe Gln Glu Glu Gln 90 85 Asp Ala Leu Lys Thr Tyr Leu Pro Lys Ile Lys Arg Ser Thr Val Glu 100 105 Ala Phe Thr Val Gly Ser Glu Ala Leu Tyr Arg Asp Asp Met Thr Ala 120 Gln Glu Leu Ala Asp Arg Ile Lys Thr Ile Arg Glu Leu Val Ala Thr 135 140 Ile Asp Asp Ser Glu Gly Asn Ser Tyr Ala Gly Ile Pro Val Gly Phe 150 155 Val Asp Ser Trp Asn Val Leu Val Asp Gly Ala Ser His Pro Ala Ile 165 170 Val Glu Ala Asp Val Val Phe Ala Asn Ala Phe Ser Tyr Trp Gln Gly 185 Gln Thr Gln Gln Asn Ser Ser Tyr Ser Phe Phe Asp Asp Ile Met Gln 195 200 Ala Leu Gln Thr Ile Gln Thr Ala Lys Gly Glu Thr Asp Ile Thr Phe 215 220 Trp Val Gly Glu Thr Gly Trp Pro Thr Asp Gly Thr His Phe Glu Asp 230 235 Ser Val Pro Ser Val Glu Asn Ala Gln Thr Phe Trp Lys Asp Ala Val 245 250 Cys Ala Ile Arg Gly Trp Gly Ile Asn Val Ile Ala Phe Glu Ala Phe 265 260 Asp Glu Ala Trp Lys Pro Asp Thr Ser Gly Thr Ser Asp Val Glu Lys 275 280 285

```
<210> 3
<211> 717
<212> DNA
<213> Zygosaccharomyces bailii
<220>
<221> CDS
<222> (1)..(717)
```

Cys Asp Phe Thr Ser

<400> 3

305

atg aaa gca gcc caa ata tta aca gca agt ata gta agc tta ttg cca Met Lys Ala Ala Gln Ile Leu Thr Ala Ser Ile Val Ser Leu Leu Pro

Tyr Trp Gly Val Trp Asp Ser Asn Ser Lys Leu Lys Tyr Asp Leu Ser 290 295 300

1 5 10 15

			-	-	_				gac Asp	_	_			-		96
-				_			-		gaa Glu							144
									gaa Glu							192
		-			-	-		-	cta Leu	-			-			240
_				-				_	cag Gln 90						_	288
~ ~ ~									gat Asp				-		-	336
			_			-		-	gac Asp				_			384
			_		-	_			cgt Arg	-	-		-	-		432
		_	_		_			_	gat Asp		_	-	_	_		480
-	-			-					tca Ser 170			-				528
									tct Ser							576
									gct Ala							624
									ttt Phe							672
									ggg Gly					tag		717

<210> 4 <211> 238 <212> PRT <213> Zygosaccharomyces bailii

<400> 4 Met Lys Ala Ala Gln Ile Leu Thr Ala Ser Ile Val Ser Leu Leu Pro 10 Ile Tyr Thr Ser Ala Arg Asn Ile Leu Asp Arg Glu Tyr Thr Ala Asn 25 20 Glu Leu Lys Thr Ala Phe Gly Asp Glu Glu Ile Phe Thr Asp Leu Thr 40 Tyr His Ile His Val Asn Val Ser Gly Glu Ile Asp Ser Tyr Tyr His 55 Asn Leu Val Asn Phe Val Asp Asn Ala Leu Ala Asn Lys Asp Ile Asn 70 75 Arg Tyr Ile Tyr Ala Ile Phe Thr Gln Gln Thr Asn Tyr Thr Glu Asp 85 90 Gly Leu Ile Glu Tyr Leu Asn His Tyr Asp Ser Glu Thr Cys Lys Asp 100 105 Ile Ile Thr Gln Tyr Asn Val Asn Val Asp Thr Ser Asn Cys Ile Ser 125 115 120 Asn Thr Thr Asp Gln Ala Arg Leu Gln Arg Arg Gly Gly Trp Val Asn 135 140 Pro His Cys Ser Gly Asp Asn Leu Ala Asp Thr Ser Asp Cys Cys Asn 150 155 Leu Ala Tyr Asn Lys Ile Asn Pro Ser Ser Asn Leu Gln Ser Trp Asn 170 165 Tyr Val Val Gly Gln Cys His Tyr Ile Ser His Ala Asn Gly Lys Val 190 180 185 Cys Ser Gly Ala Asp Arg Gln Gln Leu Ala Glu Asn Val Cys Asn Trp 205 200 Cys Gln Val Asn Gly Gly Val Ser Ala Phe Ala Ser Ser Ser Ala 215 220 His Pro Gly Ala Cys Met Ser Asp Val Gly Phe Cys Tyr Ala

230